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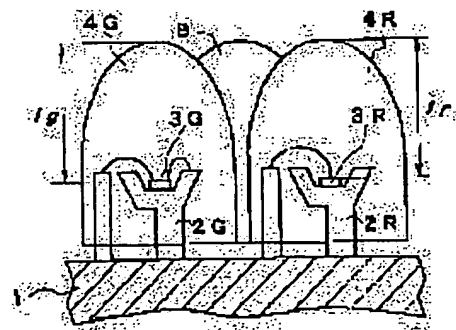
NAGAI YOSHIFUMI

(54) FULL-COLOR LED DISPLAY

(57)Abstract:

PURPOSE: To obtain the stable white balance with high luminance and small power consumption by a method wherein a green color LED and a blue color LED which have respective light emitting chips made of gallium nitride system compound semiconductor are combined together.

CONSTITUTION: Respective lead frames of a red color LED, a green color LED and a blue color LED (B) are electrically connected to the surface of a board 1 on which wiring patterns are formed. The green color LED has a green light emitting chip 3G which is composed of a sapphire substrate and a gallium nitride system compound semiconductor layer built up on the sapphire substrate and whose dimensions are $100\mu\text{m}$ thick and $350\mu\text{m}$ square. The green light emitting chip has a double-hetero structure composed of an InGaN active layer and a GaAlN cladding layer. The blue color LED (B) has a blue light emitting chip whose dimensions, etc., are the same as those of the green light emitting chip 3G except that the composition of the InGaN active layer is different. Further, in order to adjust directional characteristics, the substrate of the red light emitting chip 3R of the red color LED is polished.



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